

[AN COMPREHENSIVE GAS PROCESSOR]

Abstract of Disclosure

The present invention related to an apparatus for efficient and cost-effective comprehensive processing of natural gas, including the removal of moisture and the recovery of the higher hydrocarbons components (C_2^+). The said apparatus comprises the following major components: an integrated natural gas processor with a dehydration section and a higher hydrocarbons absorption section; a heat transport medium cooler; an absorbent cooler; a fractional distiller for separating the light oil from the heavy oil absorbent; an inhibitor regenerator; and a refrigeration unit. The present invention provides a low-cost natural gas comprehensive processor that is universally applicable to both terrestrial and off-shore natural gas exploitation. The said apparatus also provides an efficient and cost-effective natural gas dehydrator when the dehydration section is used independently without incorporating the absorption section..

Figures

Figure 1: A line graph showing the relationship between the number of hours spent studying and the score on a test. The x-axis represents the number of hours (0 to 10), and the y-axis represents the score (0 to 100). The data points are as follows:

| Hours | Score |
|-------|-------|
| 0 | 50 |
| 1 | 55 |
| 2 | 60 |
| 3 | 65 |
| 4 | 70 |
| 5 | 75 |
| 6 | 80 |
| 7 | 85 |
| 8 | 90 |
| 9 | 95 |
| 10 | 100 |

The graph shows a positive linear relationship, indicating that as the number of hours spent studying increases, the score on the test also increases.